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FIGURE 1



Figure 1 displays 12 histograms showing the distribution of the number of non-zero elements in the vector x for different values of n (10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120). The x-axis is labeled 'x' and ranges from 0 to 120. The y-axis is labeled 'count' and ranges from 0 to 100. As n increases, the distribution of x becomes more concentrated around zero, with the peak count increasing significantly.



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FIGURE 3



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$$\begin{array}{ccccccc} \text{1.} & \text{2.} & \text{3.} & \text{4.} & \text{5.} & \text{6.} & \text{7.} \\ \text{a.} & \text{b.} & \text{c.} & \text{d.} & \text{e.} & \text{f.} & \text{g.} \\ \text{h.} & \text{i.} & \text{j.} & \text{k.} & \text{l.} & \text{m.} & \text{n.} \\ \text{o.} & \text{p.} & \text{q.} & \text{r.} & \text{s.} & \text{t.} & \text{u.} \\ \text{v.} & \text{w.} & \text{x.} & \text{y.} & \text{z.} & & \end{array}$$
